

WHAT IS CLAIMED IS:

1. A cadmium negative electrode for alkaline storage battery comprising:

an electrode substrate that is filled with a cadmium active substance; and

a polyethylene glycol coating covering at least one of a surface of said electrode substrate and a surface of said cadmium active substance.

2. A cadmium negative electrode for alkaline batteries as claimed in Claim 1, wherein said polyethylene glycol is such having a mean molecular weight of 600 or higher but not more than 20000.

3. A method for producing a cadmium negative electrode for alkaline batteries, which comprises an electrode substrate that is filled with a cadmium active substance, comprising:

a step of obtaining a cadmium active-substance impregnated electrode plate by impregnating said electrode substrate with a cadmium active substance; and

a step of adding polyethylene glycol for forming a polyethylene glycol coating on the surface of said cadmium negative electrode or on the surface of said active substance by coating or impregnating said active-substance impregnated electrode with polyethylene glycol.

4. A method for producing a cadmium negative electrode for alkaline batteries as claimed in Claim 3, wherein, in the step of adding polyethylene glycol, said active-substance impregnated substrate is coated or impregnated with a solution obtained by dissolving polyethylene glycol having a mean molecular weight of 600 or higher but not more than 20000 into a solvent.

10 5. A method for producing a cadmium negative electrode for alkaline batteries as claimed in Claim 3, further comprising a drying step of drying the electrode plate after coating or impregnating said active-substance impregnated substrate with said polyethylene glycol.

15 6. A method for producing a cadmium negative electrode for alkaline batteries as claimed in Claim 4, further comprising a drying step of drying the electrode plate after coating or impregnating said active-substance impregnated substrate with
20 said polyethylene glycol.

25 7. An alkaline storage battery comprising:
a nickel positive electrode;
a negative electrode;
a separator which separates the positive electrode from the

negative electrode;

alkaline electrolyte; and

an outer can which houses the positive electrode, the negative electrode, the separator and the alkaline electrolyte therein;

5 wherein said negative electrode is a cadmium negative electrode as claimed in claim 1 or 2.

8. A method for producing an alkaline storage battery comprising the steps of:

10 producing a nickel positive electrode;

producing a negative electrode;

opposing the positive electrode and the negative electrode through a separator;

15 housing the positive electrode, the negative electrode, the separator in an outer can with alkaline electrolyte,

wherein said negative electrode is produced by the method for producing a cadmium negative electrode as claimed in any of claims 3 to 6.

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